

8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Trace Analysis, Inc.

Certificate of Analysis Number:

09031109

 Report To:
 Project Name:
 109819-10,190830-1

 Trace Analysis, Inc.
 Site:
 Lubbock, Texas

Liz Givens

6701 Aberdeen Avenue

Suite 9 Lubbock

70424

79424-

ph: (806) 794-1296

fax:

PO Number:

Site Address:

State: Texas

State Cert. No.: T104704205-06-TX

Date Reported: 4/7/2009

This Report Contains A Total Of 8 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Case Narrative for: Trace Analysis, Inc.

Certificate of Analysis Number:

09031109

 Report To:
 Project Name:
 109819-10,190830-1

 Trace Analysis, Inc.
 Site:
 Lubbock, Texas

Liz Givens

6701 Aberdeen Avenue

Suite 9

Lubbock

TX

79424-

ph: (806) 794-1296 fax:

PO Number:

Site Address:

State: Texas

State Cert. No.: T104704205-06-TX

Date Reported: 4/7/2009

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg\kg-dry " or " ug\kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 88978 for the Chlorinated Herbicides analysis by Method 8151A. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Es a Ovidenas

09031109 Page 1 4/7/2009



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

109819-10,190830-1

Lubbock, Texas

Trace Analysis, Inc.

Certificate of Analysis Number:

09031109

Report To: Trace Analysis, Inc.

Liz Givens

6701 Aberdeen Avenue

Suite 9 Lubbock

TX

79424-

Fax To:

ph: (806) 794-1296

fax: (806) 794-1298

Site Address:

Site:

Project Name:

PO Number: State:

Texas

State Cert. No.: T104704205-06-TX

Date Reported: 4/7/2009

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
190819-10	09031109-01	Water	3/18/2009 12:48:00 PM	3/24/2009 10:00:00 AM		
190830-1	09031109-02	Water	3/18/2009 12:48:00 PM	3/24/2009 10:00:00 AM		

500 Ovelinas

4/7/2009

Date

Erica Cardenas Project Manager

> Kesavalu M. Bagawandoss Laboratory Director

Ted Yen
Quality Assurance Officer



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID: 190819-10 Collected: 03/18/2009 12:48 SPL Sample ID: 09031109-01

Site: Lubbock, Texas

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORINATED HERBICIE	DES BY METHOD 8	151A		MCL SV	V8151A Uı	nits: ug/L	
2,4,5-T	ND		1	1	04/03/09 14:02	E_S1	4976087
2,4,5-TP (Silvex)	ND		1	1	04/03/09 14:02	E_S1	4976087
2,4-D	ND		1	1	04/03/09 14:02	E_S1	4976087
2,4-DB	ND		1	1	04/03/09 14:02	E_S1	4976087
Dicamba	ND		1	1	04/03/09 14:02	E_S1	4976087
Dichloroprop	ND		1	1	04/03/09 14:02	E_S1	4976087
Dinoseb	ND		1	1	04/03/09 14:02	E_S1	4976087
MCPA	ND		25	1	04/03/09 14:02	E_S1	4976087
MCPP	ND		25	1	04/03/09 14:02	E_S1	4976087
Surr: DCAA	101		% 18-176	1	04/03/09 14:02	E_S1	4976087

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	03/25/2009 6:57	N_M	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

09031109 Page 3 4/7/2009 3:18:02 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID: 190830-1 Collected: 03/18/2009 12:48 SPL Sample ID: 09031109-02

Site: Lubbock, Texas

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORINATED HERBICIE	DES BY METHOD 8	151A		MCL SV	V8151A Ur	nits: ug/L	
2,4,5-T	ND		1	1	04/03/09 14:21	E_S1	4976088
2,4,5-TP (Silvex)	ND		1	1	04/03/09 14:21	E_S1	4976088
2,4-D	ND		1	1	04/03/09 14:21	E_S1	4976088
2,4-DB	ND		1	1	04/03/09 14:21	E_S1	4976088
Dicamba	ND		1	1	04/03/09 14:21	E_S1	4976088
Dichloroprop	ND		1	1	04/03/09 14:21	E_S1	4976088
Dinoseb	ND		1	1	04/03/09 14:21	E_S1	4976088
MCPA	ND		25	1	04/03/09 14:21	E_S1	4976088
MCPP	ND		25	1	04/03/09 14:21	E_S1	4976088
Surr: DCAA	107		% 18-176	1	04/03/09 14:21	E_S1	4976088

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	03/25/2009 6:57	N_M	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

09031109 Page 4 4/7/2009 3:18:02 PM

Quality Control Documentation



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Trace Analysis, Inc. 109819-10,190830-1

Analysis: Chlorinated Herbicides by Method 8151A WorkOrder: 09031109

Method: SW8151A Lab Batch ID: 88978

Method Blank

Samples in Analytical Batch:

RunID: HP_9_090403C-4976091 Units: ug/L Lab Sample ID **Client Sample ID** E_S1 09031109-01A 190819-10 Analysis Date: 04/03/2009 15:17 Analyst: Preparation Date: 03/25/2009 6:57 Prep By: N_M Method SW3510C 09031109-02A 190830-1

Analyte	Result	Rep Limit
2,4,5-T	ND	1.0
2,4,5-TP (Silvex)	ND	1.0
2,4-D	ND	1.0
2,4-DB	ND	1.0
Dicamba	ND	1.0
Dichloroprop	ND	1.0
Dinoseb	ND	1.0
MCPA	ND	25
MCPP	ND	25
Surr: DCAA	73.6	18-176

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_9_090403C-4976089 Units: ug/L
Analysis Date: 04/03/2009 14:40 Analyst: E_S1

Preparation Date: 03/25/2009 6:57 Prep By: N_M Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
2,4,5-T	2.00	1.31	65.4	2.00	1.32	65.9	0.7	48	20	165
2,4,5-TP (Silvex)	2.00	1.68	84.0	2.00	1.69	84.6	0.7	49	25	158
2,4-D	2.00	1.23	61.5	2.00	1.28	64.0	3.9	48	10	170
2,4-DB	2.00	2.14	107	2.00	1.95	97.3	9.4	56	10	203
Dicamba	2.00	1.58	78.9	2.00	1.59	79.3	0.5	56	14	174
Dichloroprop	2.00	1.45	72.4	2.00	1.45	72.7	0.4	65	32	180
Dinoseb	2.00	1.91	95.4	2.00	1.91	95.6	0.3	46	10	130
MCPA	200	145	72.7	200	146	73.0	0.4	57	17	130
MCPP	200	150	75.2	200	148	74.0	1.5	32	13	132
Surr: DCAA	2.00	1.70	84.8	2.00	1.69	84.6	0.2	30	18	176

Qualifiers: ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

09031109 Page 6

Sample Receipt Checklist And Chain of Custody



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Sample Receipt Checklist

Workorder: Date and Time Received:	09031109 3/24/2009 10:00:00 AM		Received By:	CAW Fedex-Priority
Temperature:	3.0°C		Chilled by:	Water Ice
1. Shipping container/co	oler in good condition?	Yes 🗹	No 🗆	Not Present
2. Custody seals intact on shippping container/cooler?		Yes 🔽	No 🗆	Not Present
3. Custody seals intact o	on sample bottles?	Yes	No 🗆	Not Present 🔽
4. Chain of custody pres	ent?	Yes 🗹	No 🗆	
5. Chain of custody sign	ed when relinquished and received?	Yes 🗹	No 🗆	
6. Chain of custody agre	es with sample labels?	Yes 🔽	No 🗆	
7. Samples in proper cor	ntainer/bottle?	Yes 🔽	No 🗆	
8. Sample containers into	act?	Yes 🔽	No 🗆	
9. Sufficient sample volu	me for indicated test?	Yes 🔽	No 🗆	
10. All samples received v	vithin holding time?	Yes 🔽	No 🗆	
11. Container/Temp Blank	temperature in compliance?	Yes 🗹	No 🗆	
12. Water - VOA vials have	e zero headspace?	Yes	No U	Vials Not Present
13. Water - Preservation c	hecked upon receipt (except VOA*)?	Yes	No 🗆	Not Applicable 🔽
*VOA Preservation Ch	ecked After Sample Analysis			
SPL Representativ	/e:	Contact Date &	Time:	
Client Name Contacte	ed:			
Non Conformance Issues:				
Client Instructions:				

8608 Camp Bowie Blvd. West, Suite 180 Ft. Worth. Texas 76116 Tel (817) 201-5260 Fax (817) 560-4336 HOIG Turn Around Time if different from standard ð C. 3.0,6 SPC CABICI DES **ANALYSIS REQUEST** Moisture Content Page Dry Weight Basis Required TRRP Report Required Check If Special Reporting Limits Are Needed Hq ,2ST ,GOB Pesticides 8081 / 608 9032013 200 East Sunset Rd., Suite E El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-3443
1 (888) 588-3443 **BCB**, 28082 \ 608 GC/MS Semi. Vol. 8270 / 625 CC/W2 A91: 8560 / 624 09031169 TCLP Pesticides TCLP Semi Volatiles Headspace Y/N/NA TCLP Volatiles LAB USE TCLP Metals Ag As Ba Cd Cr Pb Se Hg ONLY Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7 Log-in-Review 5002 Basin Street, Suite A1 Midland, Toxas 79703 Tel (432) 689-6301 Fax (432) 689-6313 PAH 8270 / 625 TPH 8015 GRO / DRO / TVHC TPH 418.1 / TX1005 / TX1005 Ext(C35) 4 BTEX 8021 / 602 / 8260 / 624 8051 / 602 / 8260 / 624 **BATM** INST OBS OBS COR 3/184 12:48 COR INST 3-18-09/12:48 SAMPLING TIME Time: 6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (806) 734-1296 Fax (806) 734-1298 1 (800) 378-1298 Time: Time: Sec. Sec. **DATE** Date: Date: Date: **PRESERVATIVE** NONE Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C. METHOD ICE Sampler Signature: HOBN Company: Company: Company OS2H Project Name: HNO³ Phone # HCI STADGE Received by: Š Received by MATRIX FraceAnalysis, Inc. ЯΙΑ Received TIOS **ABTAW** email: lab@traceanalysis.com 3:45 pm InuomA \ emuloV Time: # CONTAINERS 3/23/69 01-618061 Date: 830 -1 FIELD CODE Company: Project Location (including state) Company Company (Street, City, Zip) Tale (If different from above) LAB Order ID # Relinquished by Relinquished by: Relinquished by: Company Name: Contact Person: LAB USE) Invoice to 2 Address: Project #: LAB#

Carrier #

OPIGNAL COPY